




### Anti-TRPV1 antibody [BS397] - C-terminal ab203103

★★★★★ [1 Abreviews](#) [19 References](#) [画像数 6](#)

#### 製品の概要

製品名	Anti-TRPV1 antibody [BS397] - C-terminal
製品の詳細	Mouse monoclonal [BS397] to TRPV1 - C-terminal
由来種	Mouse
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), WB, IHC-Fr, ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat <b>交差が予測される動物種:</b> Guinea pig 
免疫原	<p>Synthetic peptide within Rat TRPV1 aa 800 to the C-terminus (C terminal) (Cysteine residue). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b>contact</b> our Scientific Support team to discuss your requirements.</p> <p>Database link: <a href="#">O35433</a></p> <p style="text-align: right;">  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </p>
ポジティブ・コントロール	WB: PC-12 cell lysates; Mouse brain homogenate; forskolin and NGF stimulated 50B11 hybrid mouse and rat DRG cell lysates; NGF-stimulated PC-12 cell lysates. IHC-Fr: Mouse dorsal root ganglia. ICC/IF: C6 cells. Flow Cyt (Intra): PC-12 cells.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7</p> <p>Constituents: PBS, 3% Trehalose</p> <p>also contains buffer salts</p>

精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	BS397
アイソタイプ	IgG2b
軽鎖の種類	kappa

アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、**次のテスト済みアプリケーションにおけるab203103の使用に適用されます  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use 2µg for 10 <sup>6</sup> cells.
WB	★★★★★ (1)	Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 95 kDa.
IHC-Fr		Use a concentration of 1 - 10 µg/ml. Pre-absorption with immunogen obliterates positive staining. Frozen or PEG embedded tissues tested.
ICC/IF		Use a concentration of 1 - 2 µg/ml. Requires permeabilization step due to antigen epitope is intracellular

ターゲット情報

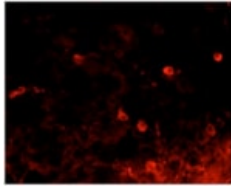
機能	Receptor-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli. Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. May be involved in mediation of inflammatory pain and hyperalgesia. Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases, which involves PKC isozymes and PCL. Acts as ionotropic endocannabinoid receptor with central neuromodulatory effects. Triggers a form of long-term depression (TRPV1-LTD) mediated by the endocannabinoid anandamine in the hippocampus and nucleus accubens by affecting AMPA receptors endocytosis.
組織特異性	Widely expressed at low levels. Expression is elevated in dorsal root ganglia. In skin, expressed in cutaneous sensory nerve fibers, mast cells, epidermal keratinocytes, dermal blood vessels, the inner root sheet and the infundibulum of hair follicles, differentiated sebocytes, sweat gland ducts, and the secretory portion of eccrine sweat glands (at protein level).
配列類似性	Belongs to the transient receptor (TC 1.A.4) family. TrpV subfamily. TRPV1 sub-subfamily. Contains 6 ANK repeats.
ドメイン	The association domain (AD) is necessary for self-association.
翻訳後修飾	Phosphorylation by PKA reverses capsaicin-induced dephosphorylation at multiple sites, probably including Ser-117 as a major phosphorylation site. Phoshphorylation by CAMKII seems to regulate binding to vanilloids. Phosphorylated and modulated by PKCM and probably PKCZ. Dephosphorylation by calcineurin seems to lead to receptor desensitization and phosphorylation

by CAMKII recovers activity.

## 細胞内局在

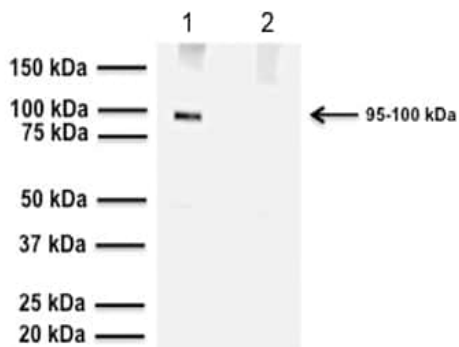
Cell junction > synapse > postsynaptic cell membrane. Cell projection > dendritic spine membrane.

## 画像



Immunohistochemistry (Frozen sections) - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

Immunohistochemical analysis of mouse dorsal root ganglia labelling TRPV1 with ab203103 at 10 µg/mL. Visualized with anti-mouse-Cy3 conjugate (red).



Western blot - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

**Lane 1 :** Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 2 µg/ml (overnight)

**Lane 2 :** Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 2 µg/ml ((pre-absorbed))

**All lanes :** Rat PC-12 (Rat adrenal gland pheochromocytoma cell line) cell lysate

Lysates/proteins at 80 µg per lane.

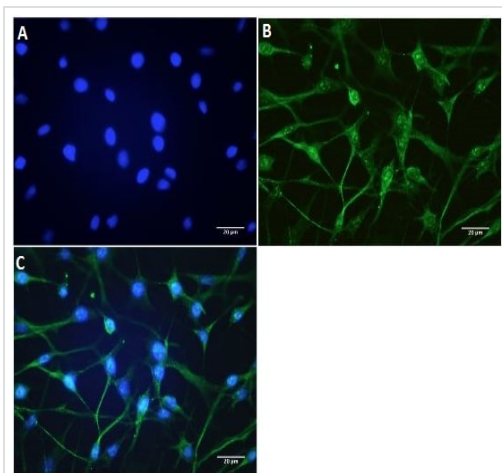
### Secondary

**All lanes :** Anti-mouse-HRP at 1/6000 dilution

Developed using the ECL technique.

**Predicted band size:** 95 kDa

SDS-PAGE: denatured and reduced

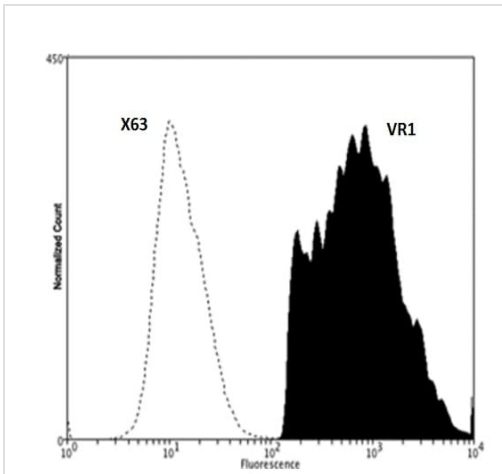


Immunocytochemistry/ Immunofluorescence - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

ab203103 staining TRPV1 in C6 (Rat glial tumor cell line) cells by ICC/IF (Immunocytochemistry/immunofluorescence).

Cells were fixed with 4% formaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% horse serum. Samples were incubated with primary antibody (2  $\mu\text{g/ml}$ , panel B) for 1 hour.

A CF488A-conjugated Donkey anti-mouse polyclonal was used as the secondary antibody (5  $\mu\text{g/ml}$ ). Nuclei were stained with Hoechst dye (panel A) and panel C shows the merged image.

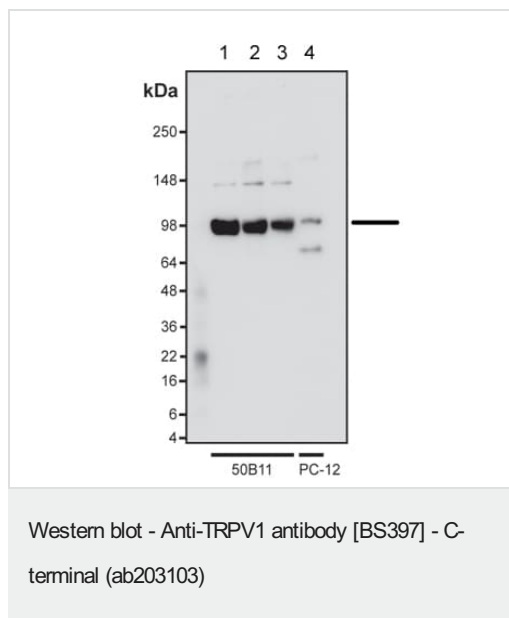


Flow Cytometry (Intracellular) - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

Analysis of TRPV1 expression in PC-12 (Rat adrenal gland pheochromocytoma cell line) cell line by Flow Cyt (Intra) (black solid).

Cells were fixed and permeabilized in absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, then blocked with 1% BSA. Incubated with primary antibody for 30 minutes at RT. Secondary antibody used is a Goat anti-mouse PE labeled secondary antibody (1:100 dilution), 20 minutes in dark at room temperature.

**Negative control:** Non-specific Control IgG, clone X63 (black dashed).



**All lanes :** Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 1 µg/ml

**Lane 1 :** 50B11 treated with Forskolin + NGF

**Lane 2 :** 50B11 treated with Forskolin

**Lane 3 :** Untreated 50B11 control

**Lane 4 :** NGF-stimulated PC-12 (Rat glial tumor cell line) cell lysate (NGF control)

Lysates/proteins at 10 µg per lane.

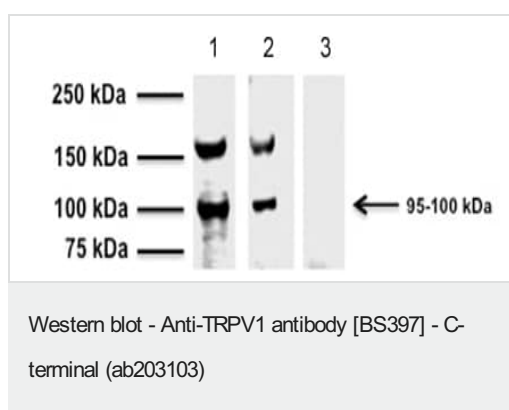
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 95 kDa

**Observed band size:** 95-100 kDa

(4°C overnight).



**Lane 1 :** Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 2 µg/ml

**Lane 2 :** Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 1 µg/ml

**Lane 3 :** Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 2 µg/ml (pre-absorbed)

**All lanes :** Mouse brain homogenate

Lysates/proteins at 25 µg per lane.

**Secondary**

**All lanes :** Anti-mouse-HRP at 1/6000 dilution

Developed using the ECL technique.

**Predicted band size:** 95 kDa

SDS-PAGE: denatured and reduced. ab203103 detects bands at 90-100 kDa and 180-200 kDa corresponding to TRPV1 monomer and dimer.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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